

## ABSTRACT

### MEASUREMENT ELEMENT FOR DETERMINING FLOW RATE

The flow rate of a fluid flowing around a measuring element is measured using a guide for guiding an electromagnetic wave along the longitudinal extension thereof and at least one electric heating element that is placed adjacent to the guide. The guide can be heated by the heating element. An electromagnetic wave, which can be launched into the guide, can be influenced according to the temperature of the guide that is dependent on the flow rate of the fluid.